

NEOEPITOPE DETECTION OF DISEASE USING PROTEIN ARRAYS

ABSTRACT OF THE DISCLOSURE

There is provided a diagnostic tool for use in diagnosing diseases, the tool having a detector for detecting the presence of an array of markers indicative of disease. Also provided is a combination of markers for disease, the combination including at least two markers of the disease. A method of choosing such combinations of markers for a given disease as well as a method for detecting a combination of markers for diagnosing the presence of a disease state or determining a disease stage is also provided. The method includes selectively biopanning sera obtained from a patient to obtain cDNA clones to array for analysis and determining if the markers are present among the cDNA clones present in the disease. Epitopes found using this method are also provided as well as a database incorporating these epitopes. A biochip for detecting the presence of a disease marker in a patient's sera is provided, wherein the biochip has a detector contained within the biochip for detecting disease markers in a patient's sera.